

PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING HIB LOCATED ALONG SB US 13 (OCEAN HIGHWAY) NORTH OF CONNELLY MILL ROAD IN WICOMICO COUNTY. THE MODIFICATION WILL CONSIST OF INSTALLING A VIDEO DETECTION CAMERA THAT WILL MONITOR SB US 13 TRAFFIC SPEEDS AND CONGESTION WHICH WILL BE WIRED TO THE POLE MOUNTED CABINET AT DAGSBORO ROAD. THE SIGNAL WILL BE RELAYED TO THE BASE MOUNTED CABINET AT CONNELLY MILL ROAD VIA INTERCONNECT, WHICH WILL THEN ACTIVATE THE HIB FLASHERS TO ALERT SB APPROACHING TRAFFIC.

US 13 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

OPERATIONS AT BOTH INTERSECTIONS WILL REMAIN UNCHANGED.

CONTROLLER REQUIREMENTS

THE EXISTING BASE MOUNTED CABINET AND CONTROLLER AT CONNELLY MILL ROAD SHALL REMAIN. THE SHA SIGNAL SHOP SHALL INSTALL ONE (1) SPECIAL RELAY PACKAGE WITHIN THE CABINET. THE EXISTING POLE MOUNTED CABINET AND CONTROLLER AT DAGSBORO ROAD SHALL BE REMOVED AND REPLACED WITH A NEW POLE MOUNTED CABINET AND CONTROLLER WITH ALL NECESSARY EQUIPMENT. THE SHA SIGNAL SHOP SHALL INSTALL THE CONTROLLER ASC II WITH TELEMETRY, ONE (1) VIDEO DETECTION INTERFACE EQUIPMENT, 5-8 CAMERAS AND ONE (1) SPECIAL RELAY PACKAGE WITHIN THE CABINET. THE SHA SIGNAL SHOP SHALL ALSO REMOVE THE EXISTING OPTICOM MODULE FROM THE EXISTING CABINET AND REINSTALL IT IN THE NEW CABINET.

THE CONTACT PERSONS FOR DISTRICT #1 / OOTS ARE AS FOLLOWS:

District 1

Mr. Gene Coffell
Assistant District Engineer - Traffic
Phone: 410-677-4040

Mr. Bruce Poole
District Utility Engineer
Phone: 410-677-4082

Mr. James Wright
Assistant District Engineer - Maintenance
Phone: 410-677-4010

Mr. Ravindra Ganvir
Assistant District Engineer - Construction
Phone: 410-677-4020

Office Of Traffic & Safety

Mr. Richard L. Daff Sr.
Chief, Traffic Operations Division
Phone: 410-787-7630

Mr. Robert Snyder
Assistant Division Chief, Traffic Operations
410-787-7630

Mr. Edward Rodenhizer
Team Leader Signal Operations
Phone: 410-787-7650

Mr. Eugene Bailey
Team Leader Sign Operations
410-787-7670

The Power Company Representative is:
Delmarva Power
2530 N Salisbury Blvd.
Salisbury, Maryland 21801
1-800-375-7117

EQUIPMENT LIST 'A'

EQUIPMENT TO BE FURNISHED BY THE SHA.

| ITEM NO | QUANTITY | DESCRIPTION |
|---------|----------|--|
| 9000 | 2 EA | SPECIAL RELAY PACKAGE |
| 9029 | 1 EA | 60 FOOT MAST ARM SINGLE X 21 FOOT POLE |
| 9042 | 1 EA | CONTROLLER ASC II WITH TELEMETRY |
| 9043 | 1 EA | CONTROLLER CABINET, SIZE 5 |
| 9087 | 1 EA | VIDEO DETECTION INTERFACE EQUIPMENT: 5-8 CAMERAS |
| 9570 | 16 SF | SHEET ALUMINUM GROUND MOUNTED SIGN: 1 EA - W3-3 (48 IN. x 48 IN.) |
| 9571 | 66 SF | SHEET ALUMINUM MAST ARM / POLE MOUNTED SIGN: 1 EA - W3-3 (48 IN. x 48 IN.) 1 EA - "CONGESTION AHEAD, STAY ALERT, WHEN FLASHING" (120 IN. x 60 IN.) |

EQUIPMENT LIST 'C'

EQUIPMENT TO BE REMOVED AND RETURNED TO SHA.

| ITEM NO | QUANTITY | DESCRIPTION |
|---------|----------|-------------|
|---------|----------|-------------|

NONE - THE SHA SIGNAL SHOP WILL REMOVE THE INTERNAL CONTROLLER EQUIPMENT FROM THE EXISTING CABINET.

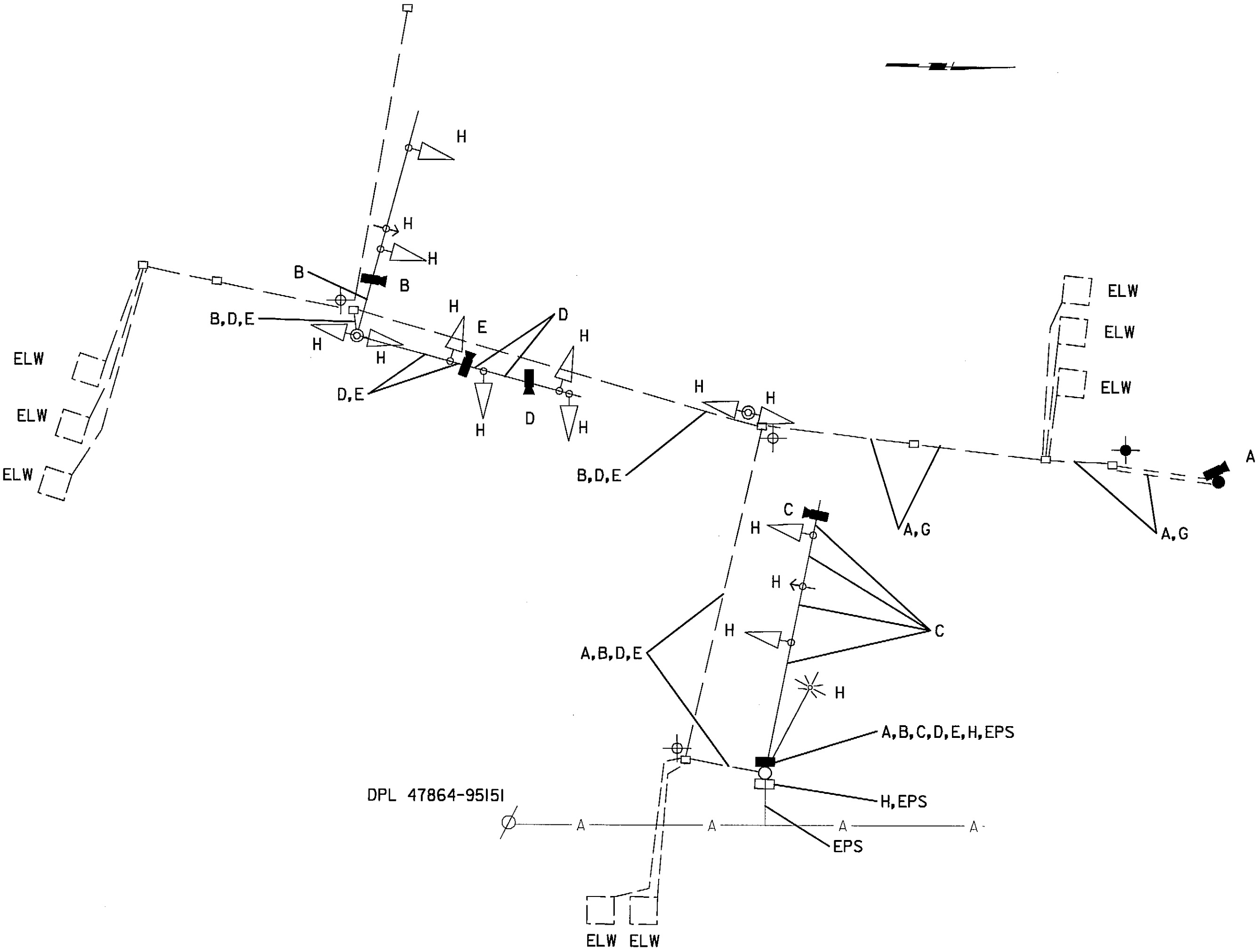
EQUIPMENT LIST 'B'

EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

| ITEM NO | QUANTITY | DESCRIPTION |
|-----------------|-----------------|---|
| 1001 | 1 EA | MAINTENANCE OF TRAFFIC PER ASSIGNMENT |
| 2002 | 1 CY | TEST PIT EXCAVATION |
| 8001 | 2 EA | 12 INCH (YELLOW) LED SIGNAL HEAD SECTION |
| 8011 | 1 EA | BREAKAWAY PEDESTAL POLE (ANY SIZE) |
| 8017 | 1 EA | REMOVE & DISPOSE OF EQUIPMENT (PER ASSIGNMENT) |
| 8019 | 1 EA | REMOVE FOUNDATION 12 INCH DEPTH |
| 8024 | 250 LF | DISCONNECT, PULL-BACK & REROUTE CABLE |
| 8028 | 100 LF | UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED |
| 8033 | 33 LF | WOOD SIGN SUPPORTS 4 INCH x 6 INCH |
| 8034 | 10 LF | NO. 6 AWG STRANDED BARE COPPER GROUND WIRE |
| 8046 | 16 SF | INSTALL GROUND MOUNTED SIGN |
| 8047 | 66 SF | INSTALL OVERHEAD SIGN |
| 8048 | 4 EA | VIDEO DETECTION CAMERA AND CABLE UP TO 500 FT |
| 8054 | 1 EA | CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE |
| 8058 | 25 LF | ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG) |
| 8062 | 1 EA | INSTALL STEEL POLE AND SINGLE MAST ARM ANY SIZE |
| 8066 | 1 EA | INSTALL CONTROLLER AND CABINET - POLE MOUNT |
| NEG 8000 | 1 EA | FURNISH AND INSTALL VIDEO DETECTION CAMERA WITH 1,000 FOOT CABLE |

WIRING DIAGRAM

US 13 @ DAGSBORO RD



- A, B, C, D, E - CONTROL CABLE - VIDEO DETECTION CAMERA TO CONTROLLER
- G - NO. 6 BARE STRANDED COPPER GROUND WIRE

- H - DISCONNECT, PULL-BACK AND REROUTE EXISTING CABLES FROM EXISTING CABINET TO PROPOSED CABINET.

ELW - EXISTING LOOP WIRE

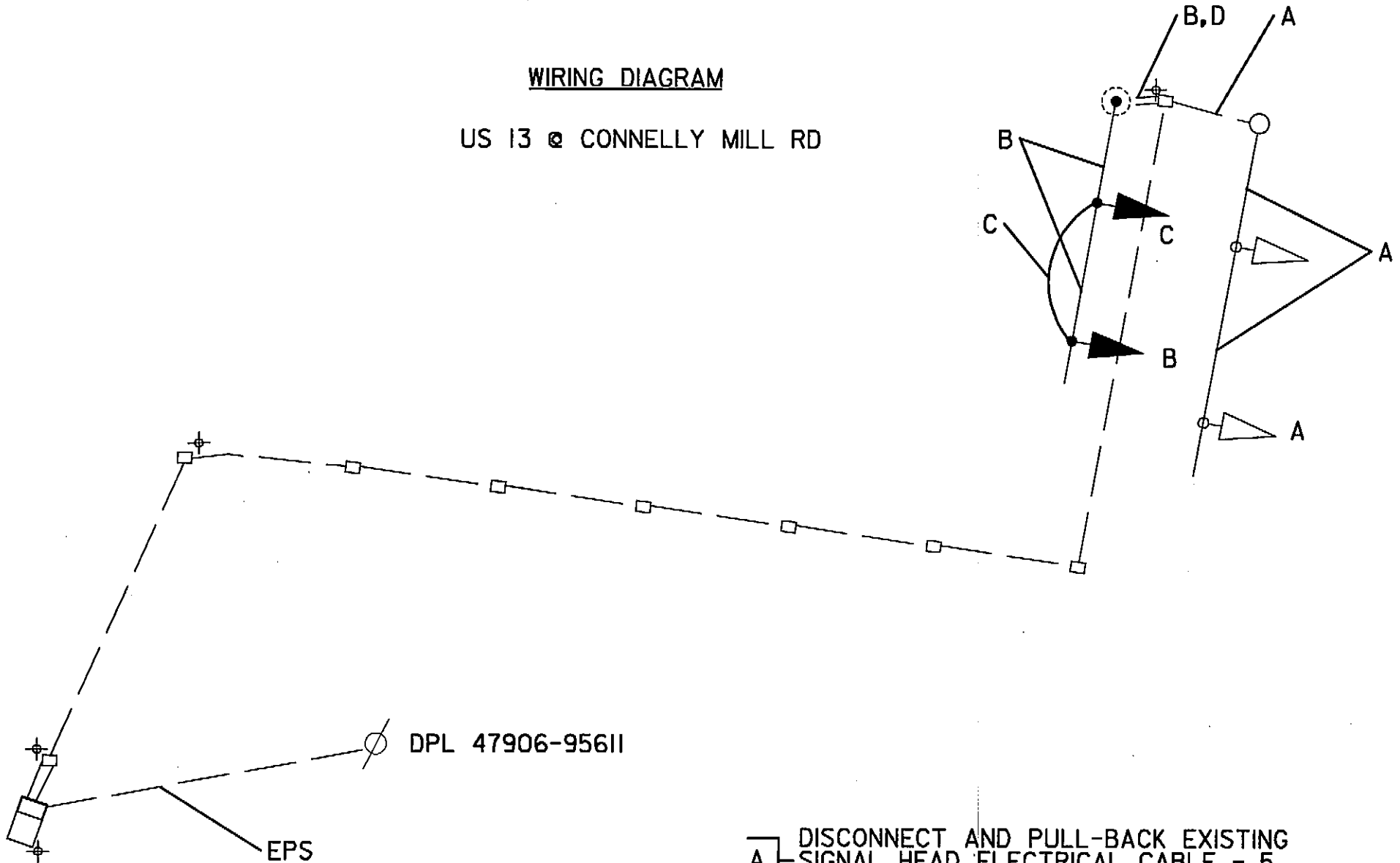
EPS - EXISTING POWER SERVICE

- ⊕ - EXISTING GROUND ROD - 3/4 INCH DIAMETER X 10 FOOT LENGTH

- ⊕ - PROPOSED GROUND ROD - 3/4 INCH DIAMETER X 10 FOOT LENGTH

WIRING DIAGRAM

US 13 @ CONNELLY MILL RD



- A - DISCONNECT AND PULL-BACK EXISTING SIGNAL HEAD ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG) AND REUSE
- B - REROUTE EXISTING ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
- C - ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
- D - NO. 6 BARE STRANDED COPPER GROUND WIRE

EPS - EXISTING POWER SERVICE

- ⊕ - EXISTING GROUND ROD - 3/4 INCH DIAMETER X 10 FOOT LENGTH

TOD NO: XX448-40
SHA NO: W1431A53/C53
US 13 @ CONNELLY MILL RD



STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
US 13 (OCEAN HIGHWAY) AT
DAGSBORO ROAD AND CONNELLY MILL ROAD /WINNER BOULEVARD
DELMAR, MARYLAND

GENERAL INFORMATION

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|-------------|------|-----------------|----------------------------|--------------|-----------|
| SCALE | NONE | ADVERTISED DATE | 8/2009 | CONTRACT NO. | XX4485185 |
| DESIGNED BY | MCJ | COUNTY | WICOMICO | | |
| DRAWN BY | MCJ | LOGMILE | 22001313.43 TO 22001314.01 | | |
| CHECKED BY | BAB | TIMS NO. | J415 | | |
| F.A.P. NO. | | TOD NO. | | | |

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|-----------------------------|---------------------|--------------------|
| TS NO. 1985F-GI 3930A-GI | DRAWING SG-03 OF 03 | SHEET NO. 03 OF 03 |
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